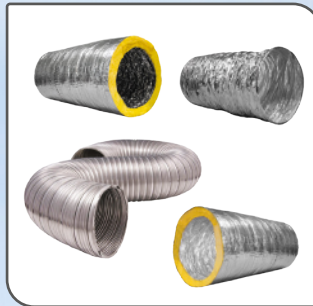
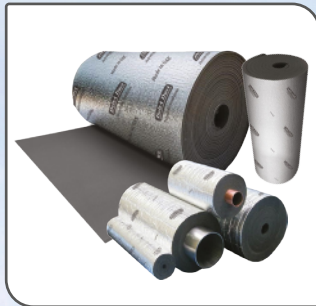




Delta Duct

Delta Duct Air Conditioning LLC

HVAC DUCTING ACCESSORIES MANUFACTURER



Product Catalogue

2026-Edition



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◀ Group Companies

- 1976 - Bin Dasmal Engineering Technologies & Management Co. LLC., Dubai, UAE
(Previously known as Bin Dasmal Contracting Est.)**
- 1980 - Dutest Industrial LLC., Dubai, UAE**
- 1995 - Bin Dasmal Doors LLC., Dubai, UAE**
- 1996 - Dutest Trading LLC - OPC., Abu Dhabi, UAE**
- 2002 - Bin Dasmal General Trading Co. LLC., Dubai, UAE**
- 2002 - KAD Air Conditioning LLC., Dubai, UAE**
- 2004 - Trosten Industries Company LLC., Dubai, UAE**
- 2010 - Bin Dasmal General Trading Co. LLC., Abu Dhabi Branch, UAE**
- 2010 - Dasmal International LLC., Muscat, Oman**
- 2011 - Saudi Dutest Industrial Co. LLC., Dammam, KSA**
- 2015 - Delta Duct Air Conditioning LLC., Dubai, UAE**
- 2016 - Bin Dasmal Group - DIP Group Office, Dubai, UAE**
- 2020 - Delta Gulf Arabian Testing Company (DGAT), Dammam, KSA**
- 2021 - Ghaf Tree Awnings Manufacturing LLC., Dubai, UAE**
- 2022 - EH Price Gulf AC Requisites Manufacturing LLC., Dubai, UAE**
- 2023 - Ekthaar Agricultural LLC., Dubai, UAE**

Product Portfolio



FLEXIBLE DUCTS



**XLPE INSULATIONS &
PIPE INSULATIONS**



ADHESIVES



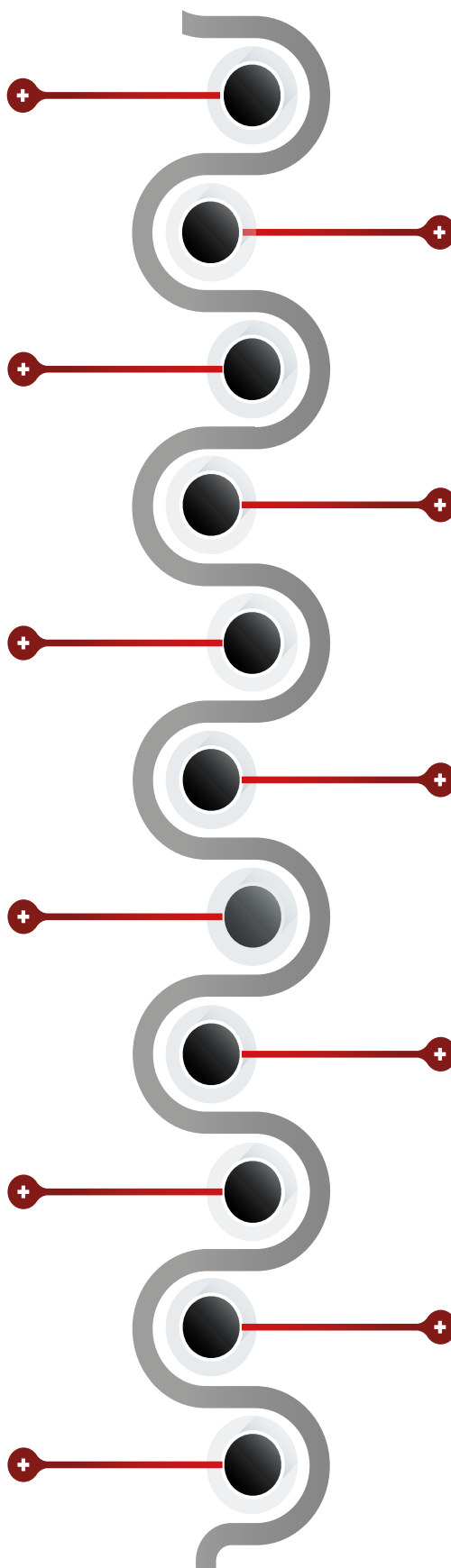
SEALANTS



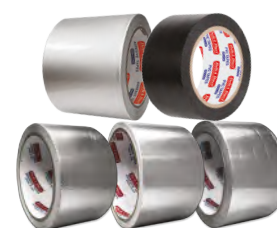
CANVAS CLOTH



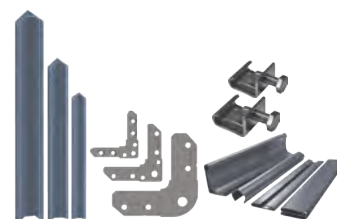
**HANGING SYSTEMS &
THREADED RODS**



**FLEXIBLE DUCT
CONNECTORS**



TAPES



GI FLANGING SYSTEMS



STUCK UP PINS



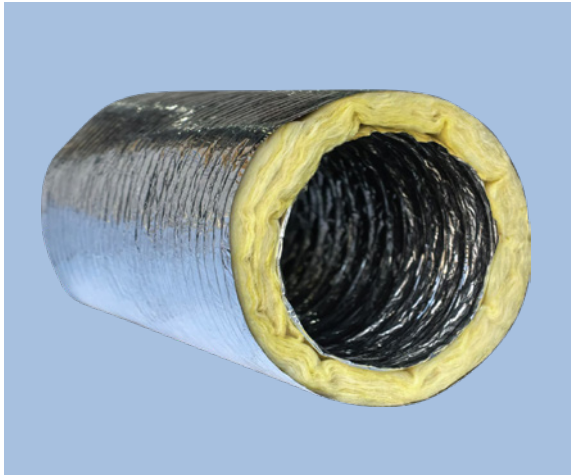
ALUMINIUM SHEETS

Product Portfolio

FLEXIBLE DUCTS

UL Listed - Insulated Flexible Duct

Delta Flex



Delta Flex is UL listed flexible duct according to UL 181 Class 1 standard. Also classified by Underwriters Laboratories INC, in accordance with ADC flexible duct performance and installation standards using ASTM C518.

Delta Flex is insulated flexible duct with outer jacket as reinforced ALUPET laminated over clear polyester, middle layer is of good quality fiber glass insulation & inner core is double layer of ALU PET & clear polyester permanently bonded with flame retardant bonding adhesive with coated steel spring helix.

Specification:

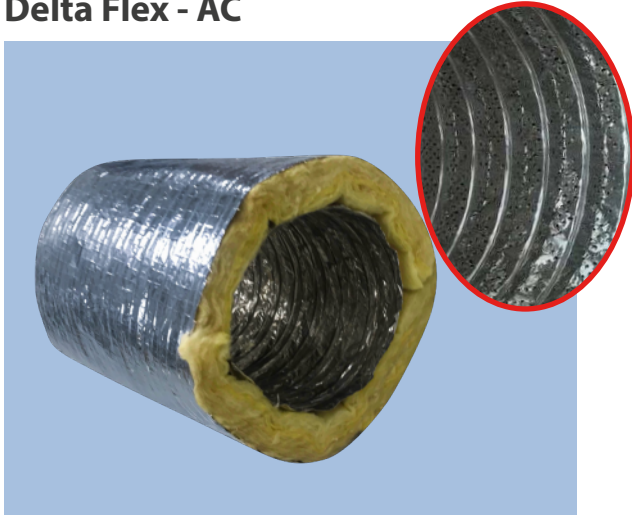
Diameter	: 4" to 20"	Operating Temperature	: - 30°C to + 150°C
Insulation Density	: 32 kg/m ³	Maximum Velocity	: 5000 FPM (25.5 m/s)
Available Insulation Thickness	: 25 mm	Maximum Positive Pressure	: 10" W.C. (2.5 KPa)
Class	: 1	Maximum Negative Pressure	: ½" W.C. (0.12 KPa)
Length	: 25 feet	Insulation R Value	: 4.2 or 6 (F-hr/BTU)

- Delta Flex is Dubai Civil Defense & Abu Dhabi Civil Defense certified.
- Delta Flex complies with UAE Fire & Life Safety Code - 2018.
- The insulation is DCL certified.
- The insulation confirms with Dubai Green Building Code.

Product Portfolio

UL LISTED - ACOUSTIC INSULATED FLEXIBLE DUCT

Delta Flex - AC



DUBAI CIVIL
DEFENSE
CERTIFICATION

ABU DHABI CIVIL
DEFENSE
CERTIFICATION



Delta Flex - AC is UL listed flexible duct according to UL 181 Class 1 standard. Also classified by Underwriters Laboratories INC, in accordance with ADC flexible duct performance and installation standards using ASTM C518.

Delta Flex - AC is acoustic insulated flexible duct with outer jacket as reinforced ALUPET laminated over clear polyester, middle layer is of good quality fiber glass insulation with BGT facing & inner core is perforated double layer of ALU PET & clear polyester permanently bonded with flame retardant bonding adhesive with coated steel spring helix.

Specification:

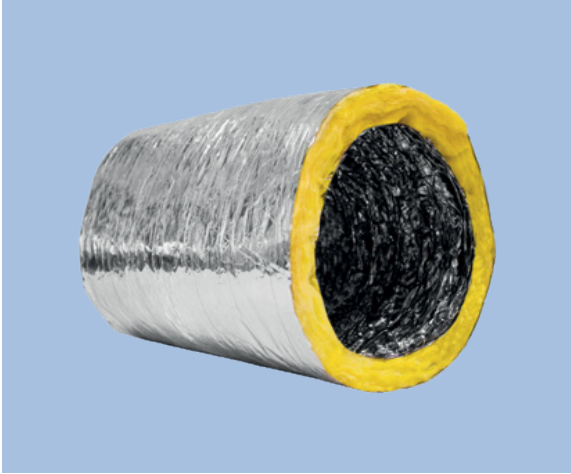
Diameter	: 4" to 20"	Operating Temperature	: - 30°C to + 150°C
Insulation Density	: 32 kg/m ³	Maximum Velocity	: 5000 FPM (25.5 m/s)
Available Insulation Thickness	: 25 mm	Maximum Positive Pressure	: 10" W.C. (2.5 KPa)
Class	: 1	Maximum Negative Pressure	: ½" W.C. (0.12 KPa)
Length	: 25 feet	Insulation R Value	: 4.2 or 6 (F-hr/BTU)

- Delta Flex - AC is Dubai Civil Defense & Abu Dhabi Civil Defense certified.
- Delta Flex - AC complies with UAE Fire & Life Safety Code - 2018.
- The insulation is DCL certified.
- The insulation confirms with Dubai Green Building Code.

Product Portfolio

FLEXIBLE DUCTS - INSULATED

Delta Duct FD3



Delta Duct FD3 is insulated flexible duct with outer jacket (Tested as per ASTM E84 & BS 476 Part 6 & 7) metalized PET laminated over clear polyester, middle layer is of good quality fiber glass insulation & inner core is double layer of clear polyester permanently bonded with flame retardant bonding adhesive with coated steel spring helix.

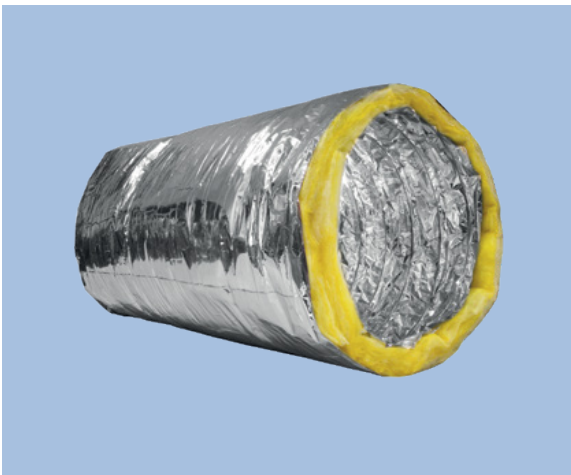
Specification:

Diameter : 4" to 20"
Insulation Density : (16, 24) kg/m³
Available Insulation Thickness : 25 mm
Length : 25 feet

Maximum Velocity : 5000 FPM (25.5 m/s)
Maximum Positive Pressure : 10" W.C. (2.5 KPa)
Maximum Negative Pressure : ½" W.C. (0.12 KPa)

Tested as per ASTM E84 & BS 476 Part 6 & 7

Delta Duct FD4



Delta Duct FD4 is insulated flexible duct with outer jacket as metalized PET laminated over clear polyester, middle layer is of good quality fiber glass insulation & inner core is double layer of metalized PET & clear polyester permanently bonded with flame retardant bonding adhesive with coated steel spring helix.

Specification:

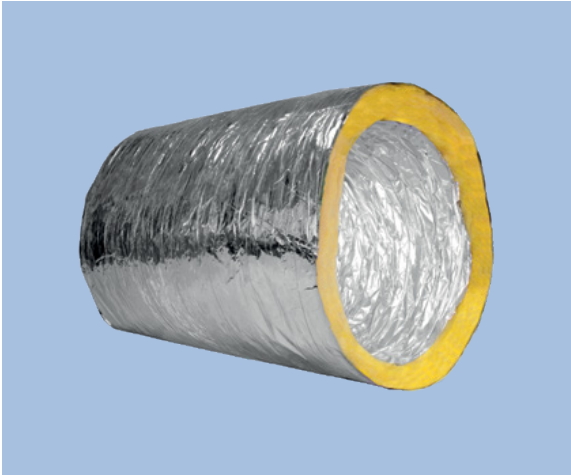
Diameter : 4" to 20"
Insulation Density : (16, 24) kg/m³
Available Insulation Thickness : 25 mm
Length : 25 feet

Maximum Velocity : 5000 FPM (25.5 m/s)
Maximum Positive Pressure : 10" W.C. (2.5 KPa)
Maximum Negative Pressure : ½" W.C. (0.12 KPa)

Tested as per BS 476 Part 6 & 7

Product Portfolio

Delta Duct FD5



Delta Duct FD5 is insulated flexible duct with outer jacket as metalized PET laminated over clear polyester, middle layer is of good quality fiber glass insulation & inner core is double layer of ALU PET & clear polyester permanently bonded with flame retardant bonding adhesive with coated steel spring helix.

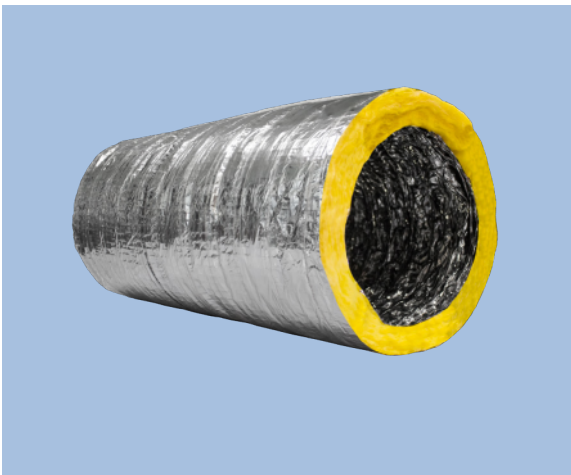
Specification:

Diameter : 4" to 20"
Insulation Density : (16, 24) kg/m³
Available Insulation Thickness : 25 mm
Length : 25 feet

Maximum Velocity : 5000 FPM (25.5 m/s)
Maximum Positive Pressure : 10" W.C. (2.5 KPa)
Maximum Negative Pressure : ½" W.C. (0.12 KPa)

Tested as per BS 476 Part 6 & 7

Delta Duct FD3 - RN



Delta Duct FD3 - RN is insulated flexible duct with outer jacket as reinforced metalized PET laminated over clear polyester, middle layer is of good quality fiber glass insulation & inner core is double layer of clear polyester permanently bonded with flame retardant bonding adhesive with coated steel spring helix.

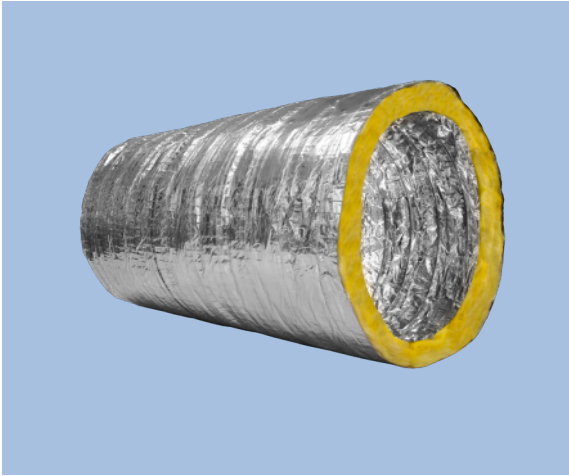
Specification:

Diameter : 4" to 20"
Insulation Density : (16, 24) kg/m³
Available Insulation Thickness : 25 mm
Length : 25 feet

Maximum Velocity : 5000 FPM (25.5 m/s)
Maximum Positive Pressure : 10" W.C. (2.5 KPa)
Maximum Negative Pressure : ½" W.C. (0.12 KPa)

Product Portfolio

Delta Duct FD4 - RN

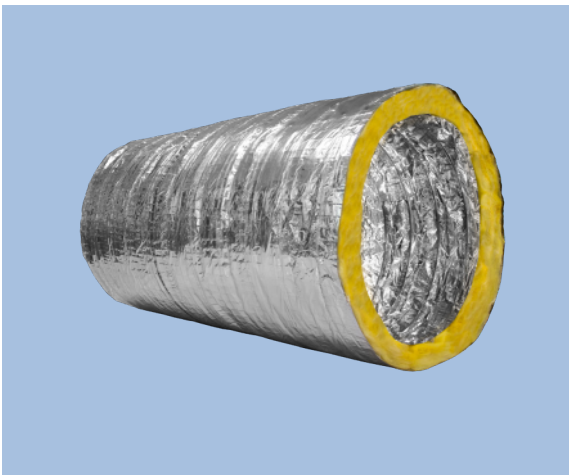


Delta Duct FD4 - RN is insulated flexible duct with outer jacket as reinforced metalized PET laminated over clear polyester, middle layer is of good quality fibre glass insulation & inner core is double layer of metalized PET & clear polyester permanently bonded with flame retardant bonding adhesive with coated steel spring helix.

Specification:

Diameter	: 4" to 20"	Maximum Velocity	: 5000 FPM (25.5 m/s)
Insulation Density	: (16, 24) kg/m ³	Maximum Positive Pressure	: 10" W.C. (2.5 KPa)
Available Insulation Thickness	: 25 mm	Maximum Negative Pressure	: ½" W.C. (0.12 KPa)
Length	: 25 feet		

Delta Duct FD5 - RN



Delta Duct FD5-RN is insulated flexible duct with outer jacket as reinforced metalized PET laminated over clear polyester, middle layer is of good quality fiber glass insulation & inner core is double layer of ALU PET & clear polyester permanently bonded with flame retardant bonding adhesive with coated steel spring helix.

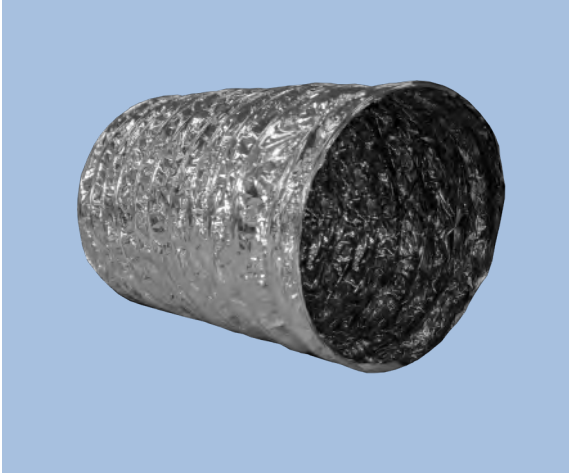
Specification:

Diameter	: 4" to 20"	Maximum Velocity	: 5000 FPM (25.5 m/s)
Insulation Density	: (16, 24) kg/m ³	Maximum Positive Pressure	: 10" W.C. (2.5 KPa)
Available Insulation Thickness	: 25 mm	Maximum Negative Pressure	: ½" W.C. (0.12 KPa)
Length	: 25 feet		

Product Portfolio

FLEXIBLE DUCTS - UNINSULATED

Delta Duct FD100



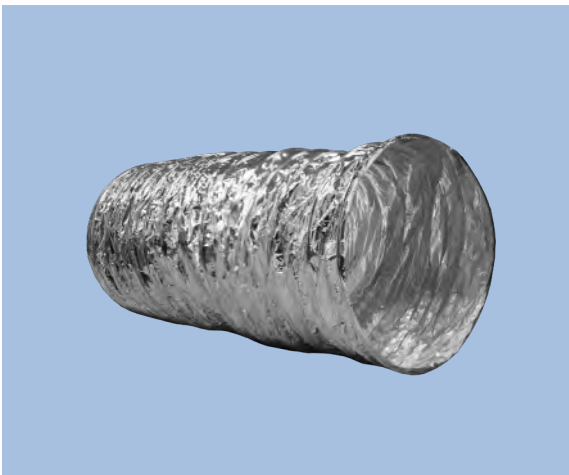
Delta Duct FD100 is made of double lamination of metalized PET & polyester film permanently bonded using flame retardant bonding adhesive to a coated spring steel wire helix.

Specification:

Diameter : 4" to 20"
Length : 25 feet
Maximum Velocity : 5000 FPM (25.5 m/s)

Maximum Positive Pressure : 10" W.C. (2.5 KPa)
Maximum Negative Pressure : ½" W.C. (0.12 KPa)

Delta Duct FD200



Delta Duct FD200 is made of double lamination of ALU PET & polyester film permanently bonded using flame retardant bonding adhesive to a coated spring steel wire helix.

Specification:

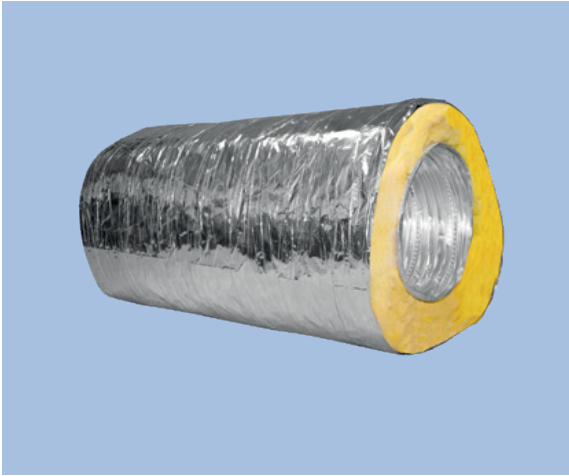
Diameter : 4" to 20"
Length : 25 feet
Maximum Velocity : 5000 FPM (25.5 m/s)

Maximum Positive Pressure : 10" W.C. (2.5 KPa)
Maximum Negative Pressure : ½" W.C. (0.12 KPa)

Product Portfolio

FLEXIBLE DUCTS - INSULATED SEMI RIGID

Delta Duct SFD-6



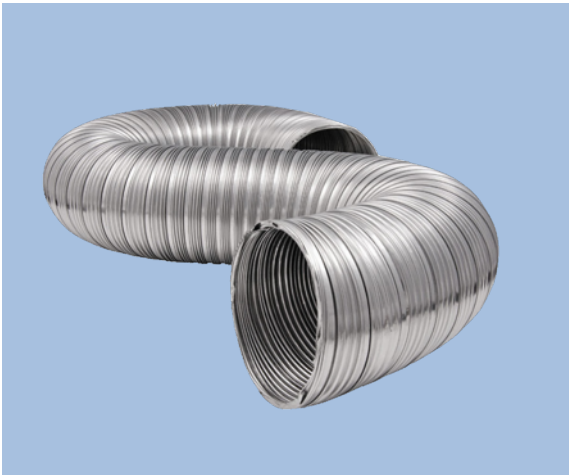
Delta Duct SFD-6 Insulated Semi Rigid Flexible Duct is made in accordance with UL 181 Class 0 standard & following 90A & 90B standard procedure for duct construction, core is made with heavy gauge corrugated aluminium with water tight continuous lock seams, 25 mm thick fiber glass insulation of density 16 kg/m³ is applied around duct and sheathed in a durable multilayer of metalized pet as a vapour barrier.

Specification:

Available ID	: 4" to 14"
Standard Length	: 10 feet

FLEXIBLE DUCTS - SEMI RIGID

Delta Duct SFD-300



Delta Duct SFD-300 Uninsulated Semi Rigid Flexible Duct is made in accordance with UL 181 Class 0 standard & following 90A & 90B standard procedure for duct construction using heavy gauge corrugated aluminium with water tight continuous lock seams.

Available ID	: 4" to 14"
Standard Length	: 10 feet

- . Semi Rigid Duct is all metal flexible duct available in aluminium sheet
- . Size 4" to 14" available Uninsulated/ Insulated (Glass wool)
- . Extreme heat resistance; non-combustible (Aluminium up to 400°F)
- . Leak proof interlocked crimp locking
- . International quality available locally
- . Flexible, stretchable and ideal for low and medium pressure applications
- . Comply to BS 476 Part 4, 6, 7 and Part 20
- . Flame spread = 0, Smoke develop = 0

Product Portfolio

Type	Aluminium
Fire resistance	Non-combustible
Flame spread	0
Smoke developed	0
Construction	1 ply aluminium
Nominal Thickness	90 micron
Available Diameters	Ø100mm - Ø 300 mm
Temperature Range	- 25 °C to + 250 °C
Air velocity	25 m/s (max)
Operating pressure	2000 Pa (max)
Standard length	3 Mtr
Compression ratio	1/3
Bending radius	1/2 Diameter
Permeance	Near Zero

- Semi Rigid Flexible Ducts are flexible, extendable, and highly reliable for low and medium pressure air conditioning, ventilation, boiler systems and chimney liners.
- Oval and circular connectors are easily installed.
- Semi Rigid Flexible Ducts are secured using an "INTERLOCK" crimp system.
- "INTERLOCK" crimp systems minimize separation of the duct when it is stretched or bent.
- Insulated Semi Rigid Flexible Duct available in different densities of fiberglass insulation, for kitchen exhaust applications.
- Available in insulated (Model: SFD6) and uninsulated (Model: SFD300)

Properties & Advantages

Pure Aluminium Body.

Non-combustible.

Impermeable to UV rays.

High resistance to UV rays.

Resistant to chemicals.

Semi-Flexible & Interlock Construction

Easy to transport & store.

Quick and easy installation.

Leak proof, airtight, energy efficient with Low operation and maintenance cost.

Insulated Semi Rigid Flexible Ducts Construction

Vapor barrier: Double layer construction of MET PET laminated over CLEAR PET with fiberglass scrim (Model: SFD6RN) or without fiberglass scrim (Model: SFD6).

Insulation Thickness: 25 mm

Insulation Density: 16 kg/m³

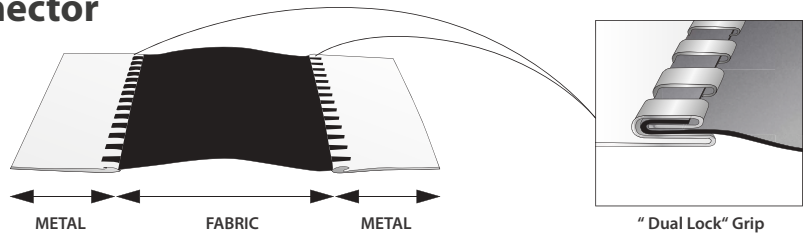
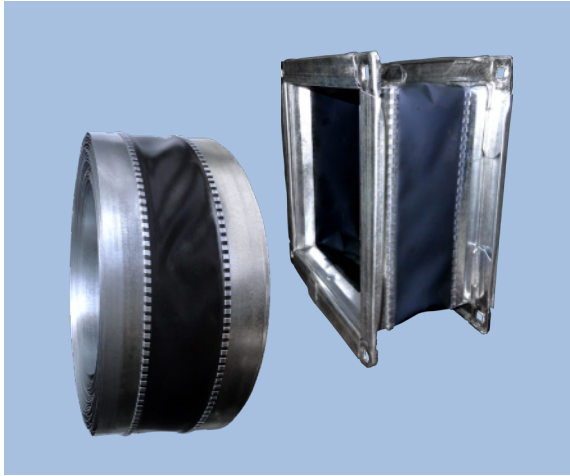
Remarks:

1. The data above are typical results and subject to change without notice.
2. Tolerance: Weight and Thickness: ±10%; Length: ± 1%.

Product Portfolio

FLEXIBLE DUCT CONNECTORS

Delta-flex Uninsulated Duct Connector

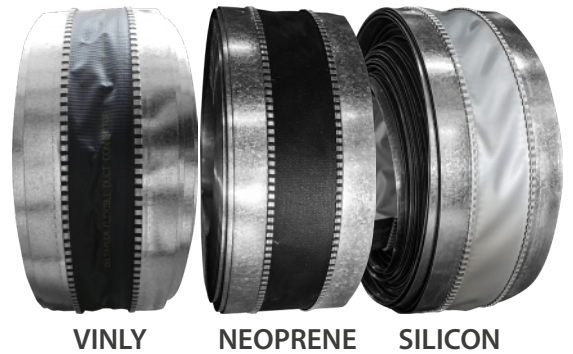


Delta-flex Duct Connectors are very strong, fully flexible duct connectors and are widely used in air conditioning systems for commercial, industrial and residential applications. Ready carton dispensing completes the fabrication quicker more efficiently, and more economically than conventional method.

Applications:

Isolation of sound and vibration from the source, double lock seam joined duct flexible connector fabric is used which is fixed to galvanized steel sheet metal is anchored with the equipment and the other end is anchored with the ductwork.

Delta-flex offers flexibility in fabric and metal width. Delta-flex Flexible Duct Connector is comply with NFPA 701-2019.



All Delta-flex Flexible Duct Connector are deigned to meet the stringent criteria of NFPA 701-2019 airtight and waterproof.

Flexible Duct Connectors are available in POLY VINYL, NEOPRENE, SILICON COATED Fabrics.

Delta-flex Insulated Duct Connector



Delta-flex is a very strong fully flexible insulated duct connector and is widely used in air conditioning systems for commercial, industrial and residential applications.

Ready carton dispensing completes the fabrication quicker more efficiently, and more economically than conventional method.

Applications:

Isolation of sound and vibration from the source and insulated fabric preventing condensation. Double lock seam joint provides strong and airtight metal - fabric - metal joint. Galvanized steel sheet metal is anchored with the equipment on one end and the other end is anchored with the ductwork. Delta-flex offers flexibility in fabric and metal width mostly available ex stock.

Delta-flex Flexible Duct fabric complying with BS 3424 & BS 5438. All Delta-flex Flexible Duct Connectors are designed to meet NFPA 701-2019 and airtight and waterproof.

Product Portfolio

Uninsulated Flexible Duct Connectors

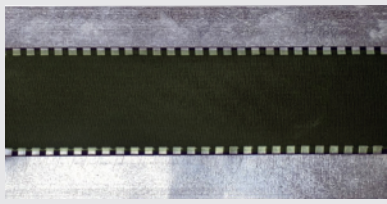
Vinyl Fabric, Model: DF-PV					
Part No	Size (Metal x Fabric x Metal) mm	Length (Feet)	Metal Gauge	Fabric Technical Specification	Features
DF-PV-13/4/3-100	45X75X45	100	28, 24, 22	Base Fabric : Polyester Yarn Fabric : Vinyl Weight : 570 gms/sq.mtr Tensile Strength : 47/46 N/mm (Warp / Weft) Low Temp : -40 Deg C (-104 Deg F) High Temp : +93 Deg C (200 Deg F) Burst Strength : 400 Psi	Vinyl is the most commonly used fabric for all air duct installations due to its high tear strength and its high abrasion resistance. Recommended for low to medium pressure ductwork systems. Air-tight and waterproof construction. Resistant to weather and most chemicals. Not affected by mildew. Complying NFPA 701-2019 (UL 214)
DF-PV-23/4/3-100	70X75X70	100	28, 24, 22		
DF-PV-3/3-100	75X75X75	100	28, 24, 22		
DF-PV-234/4-100	70X100X70	100	28, 24, 22		
DF-PV-3/4-100	75X100X75	100	28, 24, 22		
DF-PV-3/6-100	75X150X75	100	28, 24, 22		
					

Neoprene Fabric, Model: DF-GN					
Part No	Size (Metal x Fabric x Metal) mm	Length (Feet)	Metal Gauge	Fabric Technical Specification	Features
DF-GN-13/4/3-100	45X75X45	100	28, 24, 22	Base Fabric : Woven Fiberglass Fabric : Neoprene Weight : 746 gms/sq.mtr Tensile Strength : 105/70 N/mm (Warp / Weft) Low Temp : -40 Deg C (-104 Deg F) High Temp : +120 Deg C (248 Deg F) Burst Strength : 600 Psi	Neoprene is Recommended for use in application where high mechanical strength is required. Neoprene is extremely resistant to most alkalis, gasoline and toxic fumes. Airtight and waterproof construction. Not affected by mildew. Flame retardant coating with non combustible fabric. UV resistant. Complying ASTM E84 - Class 1 Complying NFPA 701-2019 (UL 214)
DF-GN-23/4/3-100	70X75X70	100	28, 24, 22		
DF-GN-3/3-100	75X75X75	100	28, 24, 22		
DF-GN-234/4-100	70X100X70	100	28, 24, 22		
DF-GN-3/4-100	75X100X75	100	28, 24, 22		
DF-GN-3/6-100	75X150X75	100	28, 24, 22		
					  ASTM E84 Standard

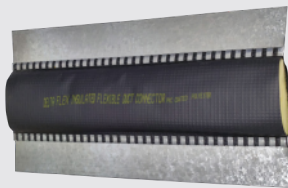
Silicon Fabric, Model: DF-GS					
Part No	Size (Metal x Fabric x Metal) mm	Length (Feet)	Metal Gauge	Fabric Technical Specification	Features
DF-GS-13/4/3-100	45X75X45	100	28, 24, 22	Base Fabric : Woven Fiberglass Fabric : Silicon Rubber Weight : 595 gms/sq.mtr Tensile Strength : 57/44 N/mm (Warp / Weft) Low Temp : -40 Deg C (-104 Deg F) High Temp : +260 Deg C (500 Deg F) Burst Strength : 600 Psi	Silicon fabric has a special silicon rubber coating that has excellent resistance to high and low temperatures. Silicon is extremely resistant to chemicals and ozone, and emits very low smoke when burnt. Recommended for applications where high temperature is of main concern in outdoor installations. Airtight and waterproof construction. Flame proof coating with non combustible fabric. Not affected by mildew. UV resistant. Complying ASTM E84 - Class 1
DF-GS-23/4/3-100	70X75X70	100	28, 24, 22		
DF-GS-3/3-100	75X75X75	100	28, 24, 22		
DF-GS-234/4-100	70X100X70	100	28, 24, 22		
DF-GS-3/4-100	75X100X75	100	28, 24, 22		
DF-GS-3/6-100	75X150X75	100	28, 24, 22		
					  ASTM E84 Standard

Product Portfolio

Uninsulated Flexible Duct Connectors

Canvas Fabric, Model: DF-CV					
Part No	Size (Metal x Fabric x Metal) mm	Length (Feet)	Metal Gauge	Fabric Technical Specification	Features
DF-CV-13/4/3-100	45X75X45	100	28, 24, 22	Base Fabric : Canvas Weight : 520 gms/sq.mtr Tensile Strength : 49/37 N/mm (Warp / Weft) Low Temp : -40 Deg C (-104 Deg F) High Temp : +93 Deg C (200 Deg F)	Canvas cloth used for air-conditioning and ventilating applications, indoor and outdoors. Airtight and waterproof construction.
DF-CV-23/4/3-100	70X75X70	100	28, 24, 22		
DF-CV-3/3-100	75X75X75	100	28, 24, 22		
DF-CV-234/4-100	70X100X70	100	28, 24, 22		
DF-CV-3/4-100	75X100X75	100	28, 24, 22		
DF-CV-3/6-100	75X150X75	100	28, 24, 22		
					

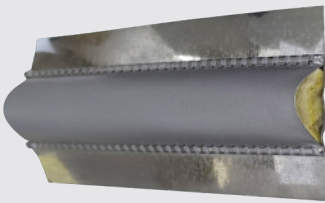
INSULATED FLEXIBLE DUCT CONNECTORS

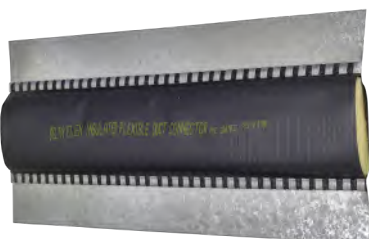
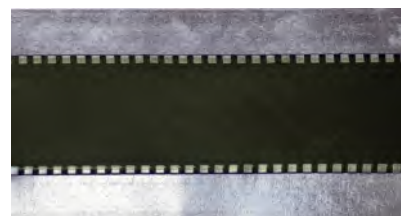
Insulated Vinyl Fabric, Model: DF-PV-IN					
Part No	Size (Metal x Fabric x Metal) mm	Length (Feet)	Metal Gauge	Fabric Technical Specification	Features
DF-PV-IN-13/4/3-100	45X75X45	100	28, 24, 22	Base Fabric : Polyester Yarn Fabric : Vinyl Weight : 570 gms/sq.mtr Tensile Strength : 47/46 N/mm (Warp / Weft) Low Temp : -40 Deg C (-104 Deg F) High Temp : +93 Deg C (200 Deg F) Burst Strength : 400 Psi Insulation : 25mm Thk	Vinyl is the most commonly used fabric for all air duct installations due to its high tear strength and its high abrasion resistance. Recommended for low to medium pressure ductwork systems. Airtight and waterproof construction Resistant to whether and most chemicals. Not affected by mildew.
DF-PV-IN-23/4/3-100	70X75X70	100	28, 24, 22		
DF-PV-IN-3/3-100	75X75X75	100	28, 24, 22		
DF-PV-IN-234/4-100	70X100X70	100	28, 24, 22		
DF-PV-IN-3/4-100	75X100X75	100	28, 24, 22		
DF-PV-IN-3/6-100	75X150X75	100	28, 24, 22		
					

Insulated Neoprene Fabric, Model: DF-GN-IN					
Part No	Size (Metal x Fabric x Metal) mm	Length (Feet)	Metal Gauge	Fabric Technical Specification	Features
DF-GN-IN-13/4/3-100	45X75X45	100	28, 24, 22	Base Fabric : Woven Fiberglass Fabric : Neoprene Weight : 746 gms/sq.mtr Tensile Strength : 105/70 N/mm (Warp / Weft) Low Temp : -40 Deg C (-104 Deg F) High Temp : +120 Deg C (248 Deg F) Burst Strength : 600 Psi Insulation : 25mm Thk	Neoprene is Recommended for use in application where high mechanical strength is required. Neoprene is extremely resistant to most alkalis, gasoline and toxic fumes. Airtight and waterproof construction. Flame retardant coating with non combustible fabric. Not affected by mildew. UV resistant. Complying ASTM E84 - Class 1
DF-GN-IN-23/4/3-100	70X75X70	100	28, 24, 22		
DF-GN-IN-3/3-100	75X75X75	100	28, 24, 22		
DF-GN-IN-234/4-100	70X100X70	100	28, 24, 22		
DF-GN-IN-3/4-100	75X100X75	100	28, 24, 22		
DF-GN-IN-3/6-100	75X150X75	100	28, 24, 22		
					 ASTM E84 Standard

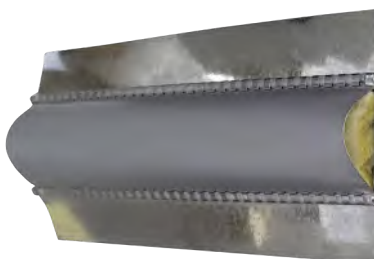
Product Portfolio

Insulated Flexible Duct Connectors

Insulated Silicon Fabric, Model: DF-GS-IN					
Part No	Size (Metal x Fabric x Metal) mm	Length (Feet)	Metal Gauge	Fabric Technical Specification	Features
DF-GS-IN-13/4/3-100	45X75X45	100	28, 24, 22	Base Fabric : Woven Fiberglass Fabric : Silicon Rubber Weight : 595 gms/sq.mtr Tensile Strength : 57/44 N/mm (Warp / Weft) Low Temp : -40 Deg C (-104 Deg F) High Temp : +260 Deg C (500 Deg F) Burst Strength : 600 Psi Insulation : 25mm Thk	Silicon fabric has a special silicon rubber coating that has excellent resistance to high and low temperatures. Silicon is extremely resistant to chemicals and ozone, and emits very low smoke when burnt. Recommended for applications where high temperature is of main concern in both indoor and outdoor installations. Airtight and waterproof construction. Flame proof coating with non combustible fabric. Not affected by mildew. UV resistant. Complying ASTM E84 - Class 1
DF-GS-IN-23/4/3-100	70X75X70	100	28, 24, 22		
DF-GS-IN-3/3-100	75X75X75	100	28, 24, 22		
DF-GS-IN-23/4-100	70X100X70	100	28, 24, 22		
DF-GS-IN-3/4-100	75X100X75	100	28, 24, 22		
DF-GS-IN-3/6-100	75X150X75	100	28, 24, 22		
					



DF-PV-IN



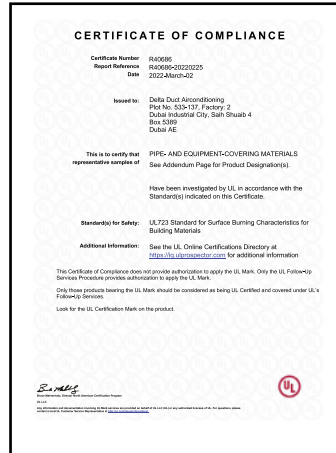
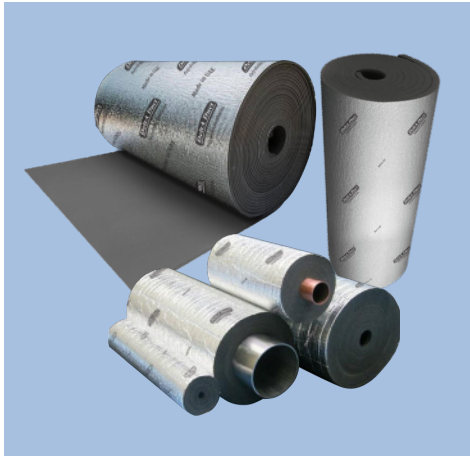
DF-GS-IN



DF-GN-IN

Product Portfolio

XLPE INSULATION & PIPE INSULATION



UL 723 CERTIFICATE -
Standard for Surface Burning
Characteristics for XLPE

British standard for fire tests on
building materials and structures

Fire Class & Smoke Emission

Delta Duct XLPE is CLASS O rated (BS 476 Parts 6 & 7), passed ASTM E84, UL 723 certified.

Zero Water Vapour Permeability & Low Water Absorption Rate

Delta Duct XLPE can be installed on ducts or pipes without any other additional water vapor barriers. The excellent protection against condensation ensures a long-term.

Excellent Thermal Efficiency

Delta Duct XLPE has low thermal conductivity of 0.032 - 0.035 W/mK (ASTM C518), which guarantees a high thermal performance, improvement of the installation, excellent dimensional properties and full closed cell structure stand for durable values of thermal of the longest technical life of the products.

UL723 Certified - Standard for Surface Burning Characteristics for XLPE.

Environment Friendly Foam

Delta Duct XLPE is a CFC and HCFC free product and doesn't contain substances that contribute to the Ozone Depletion Potential (ODP) or to the Global Warming Potential (GWP). Delta Duct XLPE very low emission level (VOC).

Cost Saving

Delta Duct XLPE requires a limited number of accessories (tape and glue); this facilities a short installation time and low installation costs. Delta Duct XLPE is specially recommended for medical, pharmaceutical and food processing facilities as well as schools and hospitals.

XLPE Foam is available also in other colours on request. Also alu pet foil of different colours (customer's choice) permanently bonded on the foam can be offered on special request.

Product Portfolio

XLPE Insulation & Pipe Insulation



Description:

Flexible closed cell insulation material with high water vapor diffusion resistance and low thermal conductivity.

Material:

Cross linked polyolefin foam with density of $25 \pm 5 \text{ kg/m}^3$ (foam core only) and grey colour.

Self-adhesive coating:

Pressure sensitive adhesive coating.

Applications:

Thermal insulation / protection for pipes, air ducts, vessels (incl. elbows, fittings, flanges, etc.) and process equipment to prevent condensation, save energy and block sound propagation.

INSULATION THICKNESS		PRODUCT RANGE							
INCH	MM	SIZE WIDTH X LENGTH	SURFACE	TYPE	XLPE	XLPE SA	XLPE AL	XLPE SA-AL	XLPE SA RAL
1/4"	5	1.2 m x 20 m	24 m²	Roll	5	5 SA	5 AL	5 SA-AL	
3/8"	10	1.2 m x 20 m	24 m²	Roll	10	10 SA	10 AL	10 SA-AL	
1/2"	12	1.2 m x 20 m	24 m²	Roll	12	12 SA	12 AL	12 SA-AL	12 SA RAL
	15	1.2 m x 20 m	24 m²	Roll	15	15 SA	15 AL	15 SA-AL	15 SA RAL
3/4"	20	1.2 m x 10 m	12 m²	Roll	20	20 SA	20 AL	20 SA-AL	20 SA RAL
1"	25	1.2 m x 10 m	12 m²	Roll	25	25 SA	25 AL	25 SA-AL	25 SA RAL
1 1/4"	30	1.2 m x 2.4 m	2.88 m²	Sheet	30	30 SA	30 AL	30 SA-AL	
	35	1.2 m x 2.4 m	2.88 m²	Sheet	35	35 SA	35 AL	35 SA-AL	
1 1/2"	40	1.2 m x 2.4 m	2.88 m²	Sheet	40	40 SA	40 AL	40 SA-AL	
2"	50	1.2 m x 2.4 m	2.88 m²	Sheet	50	50 SA	50 AL	50 SA-AL	
Length: ±2 cm									
Thickness		3-10 mm = ±1 mm							
		10-30 mm = ±1.5 mm							
		30-50 mm = -2 mm +3.5 mm							

Product Portfolio

TEST REPORT



Delta Duct[®] XLPE INSULATION is chemically cross-linked closed cell polyolefin foam with pressure sensitive adhesive backing & factory laminated Alu-Pet as a vapor barrier.

	RESULT	TESTED STANDARD
Temperature range	+105°C to -80°C	ASTM C411
Thermal conductivity λ [W/(m · K)] at 23[°C]	0.032 - 0.035	ASTM C518: 2010
Water vapor permeance [perms]	0	ASTM E96
Reaction to fire	Class O	BS 476 Parts 6&7
UV resistance*	Excellent	
Resistance to corrosion	Excellent	
Resistance to fungi	Passed	
Resistance to bacteria	Passed	
Emission (VOC level)	<4 g/m ² /hr.	ASTM D5116
Environment friendly Ozone resistance Ozone Depletion Potential Global Warming Potential CFC & HCFC Dust, fibres & asbestos	Excellent 0 <5 Free	
Storage life Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C to 45°C).	1 year for self-adhesive sheets/rolls Self-adhesive tapes	

XLPE Pipe Insulation:

Thickness : 12 mm, 15 mm, 20 mm, 25 mm, 30 mm, 40 mm, 50 mm

Insulation Inner Diameter (ID) : 9 mm -350 mm

****Insulation ID (mm) = Pipe outer Diameter (mm)**

Product Portfolio

Technical Data Sheet - Delta Duct® Acoustic

Material:	Delta Duct® Acoustic is chemically cross-linked partially open cell polyolefin foam with pressure sensitive adhesive backing.
Density:	25±5 kg/m ³ (foam core only)
Thermal Conductivity:	0.035 W/m/°K (@ 23°C mean temperature) (ASTM C518)
Water Absorption by Volume:	< 0.3% v/v (ASTM C1763, Procedure B, 24h)
Resistance to Fungi:	Zero Growth (ASTM G21)
VOC Emission Rate:	Low VOC (ASTM D5116)
Operating Temperature Range:	-80 °C ~ +100 °C (no adhesive)
Maximum Recommended Design Air Velocity:	20.3 m/s (4000 fpm)
Air Friction Losses:	Comparable to galvanized steel duct.
Fire Resistance:	BS 476 part 6 & 7 CLASS O

Product Portfolio

Tolerances

The following tables list tolerances for thickness, density, and width of standard Delta Duct® Acoustic products:

NOMINAL THICKNESS	TOLERANCE
12mm	-1.0mm / +1.5mm
15mm	-1.0mm / +2.0mm
20mm	-1.0mm / +2.0mm
25mm	-1.0mm / +2.5mm
30mm	-1.0mm / +2.5mm
40mm	-1.5mm / +3.0mm
50mm	-2.0mm / +3.5mm

NOMINAL DENSITY	TOLERANCE
25 kg/m ³	± 10%

NOMINAL WIDTH	TOLERANCE
1200mm	-0 / +20mm

NOMINAL LENGTH	TOLERANCE
Sheets (2400mm length)	-0mm / +70mm
Rolls (all lengths)	-0% / +5%

Remarks

1. The data above are typical results and subject to change without notice.
2. For any query Contact our Technical team or share your inquiry on info@deltaduct.com or visit our website www.deltaduct.com for more product details.

Product Portfolio

ADHESIVE TAPES

Aluminium Foil Tape



Delta Duct Aluminium Foil Tape is nominal dead soft aluminium foil with strong high performance synthetic rubber-resin adhesive and protected by easy release liner.



Features:

- Excellent peel adhesion
- Permanent bonding
- Good water & fire resistance
- Good aging resistance

Applications:

Super performance, professional grade foil tape. Ideal for sealing joints / seams against moisture and vapor on foil jacketing insulation. Suitable for many other permanent sealing, holding, splicing or masking applications requiring the protection offered by a foil backing. It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, and free of grease and oil.

Technical Datasheet:

PROPERTIES	UNIT	VALUE	TEST METHOD
Backing Thickness	Micron	18 ± 2	ASTM D 3652 / PSTC-133
Peel adhesion	N/25mm	12	ASTM D 3330 / PSTC-101
Tack Rolling Ball	cm	10	ASTM D 3121 / PSTC-6
Tensile Strength	N/25mm	35	ASTM D 3759 / PSTC-131
Elongation	%	3.0	ASTM D 3759 / PSTC-131
Service Temperature	°C	-10 ~ +80	-----

Tolerance: Thickness ± 2 micron, Width ± 1 mm

Packing:

WIDTH	LENGTH	ROLLS / BOXES
2"	25 yards	24
3"	25 yards	16
4"	25 yards	12

Storage:

Store @ 27°C and 50% relative humidity.

Shelf Life:

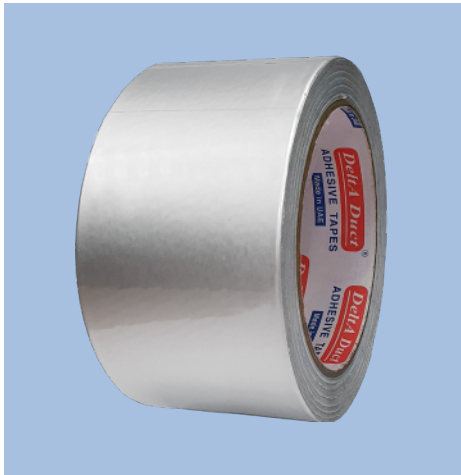
01 year from the date of manufacturing

Note:

- The data above are typical results and not to be used for specification purpose.
- Custom sizes can be made as per request.

Product Portfolio

Alu Pet Tape



Delta Duct ALU PET TAPE, is combined with a high-performance solvent based acrylic adhesive.



ASTM E84 Standard

Features:

- DELTA DUCT® ALU PET TAPE, backing provides excellent reflection of both heat and light.
- High quality adhesive with strong adhesion and holding
- Power offers permanent sealing and bonding.
- Good aging resistance both indoors and outdoors.
- Low moisture vapor transmission rate offers excellent sealing and patching performance.

Applications:

Excellent for, installation of XLPE Insulation joints, fixing copper tube of Refrigerator, Joining, and sealing Polyester-Foil laminated insulation pipe's joints and seams. Sealing solar-reflecting board's seams. General purpose holding, patching, sealing, and masking applications - indoors and outdoors.

Technical Datasheet:

PROPERTIES	METRIC	TEST METHOD
Backing Thickness	20 Micron	PSTC-133 / ASTM D 3652
Total Thickness	55 Micron	PSTC-133 / ASTM D 3652
Adhesion to Steel	15 N/25mm	PSTC-101 / ASTM D 3330
Tack Rolling Ball	5 cm	PSTC-6 / ASTM D 3121
Tensile Strength	100 N/25mm	PSTC-131 / ASTM D 3759
Elongation	20.0 %	PSTC-131 / ASTM D 3759
Service Temperature	-30 °C to +80 °C	-----
Applying Temperature	Up to maximum +40 °C	-----

Cut Roll: 48mm (2"), 72mm (3"), 96mm (4")

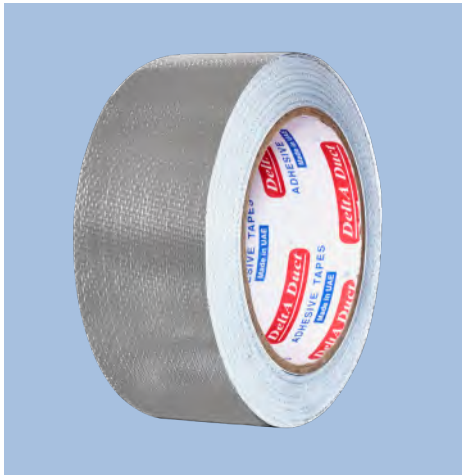
Jumbo Roll: 1.2 meter x 100 meter.

Note:

1. The data above are typical results and subject to change without notice.
2. Tolerance: Weight and Thickness: $\pm 10\%$; Width: $\pm 3\text{mm}$; Length: Cut Roll: $\pm 0.3\text{m}$.
3. The product should be stored at room temperature and kept from wet and heat source.
4. Shelf life: One year from shipment date when stored at 27°C / 50% relative humidity out of direct sunlight.
5. It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, and free of grease and oil.
6. The user should take test and do trial-application on the above products before coming into application so as to witness and ensure suitability for user's special purpose and technique.

Product Portfolio

Alu Glass Tape



Delta Duct Alu Glass Tape is a foil-glass cloth backing (7u foil with a 10 x 10 mesh 85 gsm glass cloth) with strong high performance acrylic adhesive and protected by easy release liner.



Features:

- Match foil-glass cloth laminate
- Permanent bonding
- High tensile & tear strength
- Outstanding temperature & aging resistance.

Applications:

Commercial Alu Glass Tape is tested as per ASTM E84. Specially designed for sealing insulation joints and seams against moisture and vapor on foil-glass cloth. Suitable for both HVAC and industrial application. It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, and free of grease and oil.

Technical Datasheet:

PROPERTIES	UNIT	VALUE	TEST METHOD
Backing Thickness	Micron	100	PSTC-133 / ASTM D 3652
Peel adhesion	N/25mm	20	PSTC-101 / ASTM D 3330
Tack Rolling Ball	cm	20	PSTC-6 / ASTM D 3121
Tensile Strength	N/25mm	255	PSTC-131 / ASTM D 3759
Elongation	%	5	PSTC-131 / ASTM D 3759
Service Temperature	°C	-10 ~ +80	-----

Tolerance: Thickness ± 2 micron, Width ± 1 mm

Packing:

WIDTH	LENGTH	ROLLS / BOXES
2"	25 yards	24
3"	25 yards	16
4"	25 yards	12

Storage:

Store @ 27°C and 50% relative humidity.

Shelf Life:

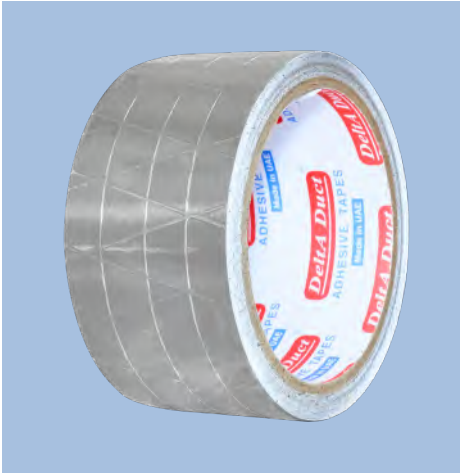
01 year from the date of manufacturing.

Note:

- The data above are typical results and not to be used for specification purpose.
- Custom sizes can be made as per request.

Product Portfolio

FSK Tape



Delta Duct FSK Tape is a 3-way FSK backing with strong high performance aggressive synthetic rubber adhesive and protected by easy release liner.

Features:

- Excellent peel adhesion
- Good initial tack
- Permanent bonding
- Match 3-way foil-scrim-kraft facing

Applications:

Super performance, professional grade 3-way foil-scrim-kraft tape. Specially designed for sealing insulation joints and seams against moisture and vapor on 3-way scrim FSK jacketing. It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, and free of grease and oil.

Technical Datasheet:

PROPERTIES	UNIT	VALUE	TEST METHOD
Backing Thickness	Micron	120	PSTC-133 / ASTM D 3652
Peel adhesion	N/25mm	20	PSTC-101 / ASTM D 3330
Tack Rolling Ball	cm	20	PSTC-6 / ASTM D 3121
Tensile Strength	N/25mm	120	PSTC-131 / ASTM D 3759
Elongation	%	2.0	PSTC-131 / ASTM D 3759
Service Temperature	°C	-10 ~ +80	-----

Tolerance: Thickness ± 2 micron, Width ± 1 mm

Packing:

WIDTH	LENGTH	ROLLS / BOXES
2"	25 yards	24
3"	25 yards	16
4"	25 yards	12

Storage:

Store @ 27°C and 50% relative humidity.

Shelf Life:

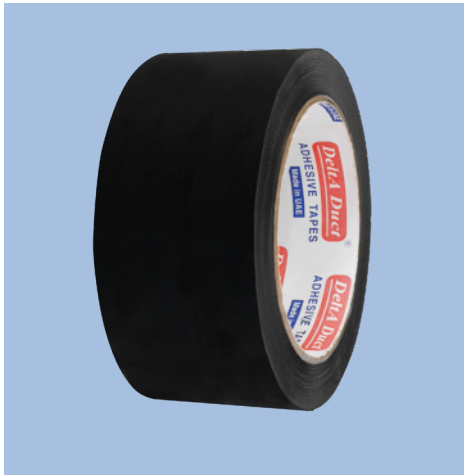
01 year from the date of manufacturing.

Note:

- The data above are typical results and not to be used for specification purpose.
- Custom sizes can be made as per request.

Product Portfolio

PVC Tape



Delta Duct PVC Tape is designed mainly for industrial use of pipe wrapping, ideal for underground pipeline or conduit corrosion, has good resistance to moisture, humidity corrosion and temperature variations, possess and outstanding conformity. This is made of plasticized PVC with rubber adhesive, is available in colours of black and white.

Features:

- Ideal for metal and plastics pipes and underground construction applications.
- It is moisture resistant, anti-corrosive and highly conformable.
- Service Temperature range from -20° to +80°C (-4° to +176°F)

Applications:

HVAC industry for protecting underground pipes May also be used for other industrial uses requiring a tape with these characteristics and benefits.

Technical Datasheet:

TECHNICAL PROPERTY	NOMINAL VALUE	TOLERANCE	UNIT	TEST METHOD
Thickness	0.13	±10%	mm	IEC 60454-2
Tensile Strength	30	±10%	N/cm	IEC 60454-2
Elongation at Break	180	±10%	%	IEC 60454-2
Adhesion to Steel	1.8	±10%	N/cm	IEC 60454-2

Standard Presentations:

Roll Length: 30 meter (other lengths can be made as per customized orders)

Roll Width: 48 mm and 72 mm (other widths can be made as per customized orders)

Core: 32 mm Delta Duct® branded cardboard core

Packaging: Corrugated carton boxes

Colours: Black (other colour can be made as per customized orders)

Recommendations:

Rolls should be stored flat on their cut edges in the original packaging. The product must be protected from dust, heat, moisture, direct sunlight and solvent fumes. The storage temperature should be between +5°C and +27°C. Use within 24 months from date of manufacturing. The tape should be applied with sufficient tension to ensure an optimum bonding and a minimum of two layers with a half overlap. The final layer should be wrapped with a lower tension to prevent flagging effects. Surfaces should be clean, dry and free of dust, grease, oil or other contaminants.

Product Portfolio

EVA Foam Tape (EVA Foam Gasket)



Delta Duct EVA Foam tape is based on EVA backing material, coating on one side with strong solvent acrylic adhesive or hot melt adhesive and with white/yellow silicon paper/glassine silicon paper as release liner. EVA Foam tape is designed for adhering to the irregular surface, fixing the nameplate, auto-mirror and often used in the automobile industry such as door sealing strips, pedal and metal boards. Specially suitable for the fixation of inner structure in the glass combination like the glass curtain wall and soundproof wall etc.; also used to stick the car decorations and for the combination orientation

of sound source inside the voice box. It has the advantages of high-adhesion, easy to peel, no adhesive residue etc. The foam tapes provide excellent bonding and barrier properties for gasket sealing, cushioning, mounting and insulating applications in a wide range of industries including HVAC, Glass, Window & Door, RV & Marine, Lighting, and more.

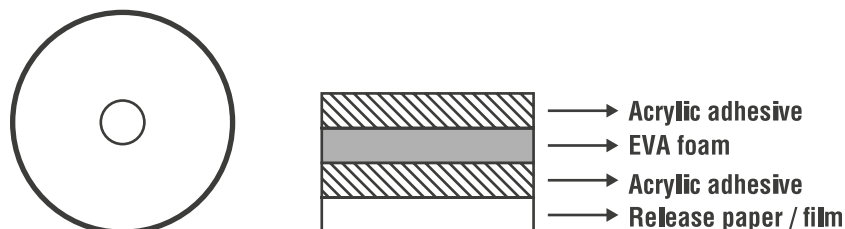
Features:

- Water proof.
- Excellent holding power, peel strength and initial adhesion.
- Anti-shock, sound proof, heat and humidity resistance.
- Superior stick capabilities to different surfaces such as metal, plastic, paper, wooden and silicon etc.
- It is easy to cut, slit and joint.

Physical performance:

THICKNESS (MM)	INITIAL TACK (#)	PEEL ADHESION (N/25 MM)	HOLDING POWER	FOAM COLOUR
3	18	Min. 17	Min. 24	Black

Structure:

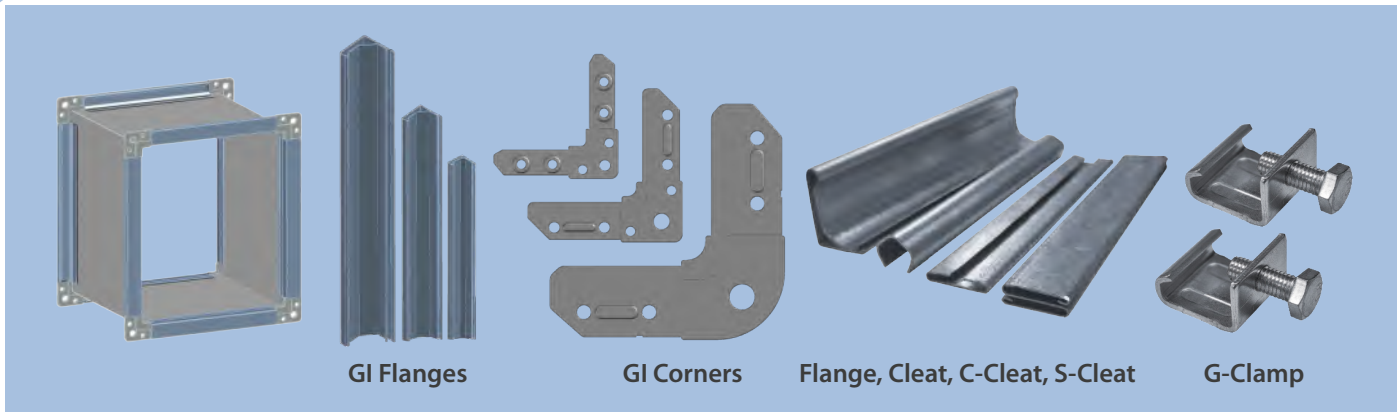


Packing:

WIDTH	LENGTH	ROLLS / BOXES
1"	7.5 meters	60
2"	7.5 meters	30

Product Portfolio

FLANGING SYSTEMS



Design Specification: All galvanized steel sheet ductworks shall be transverse jointed with proprietary factory fabricated slide on duct flange system including 20 mm, 25 mm, 30 mm, 35 mm and 40 mm size duct flanges in accordance with BSRIA standards, with matching corner, cleats and clamps.

The flanges are manufactured by precision roll forming operations from galvanized steel sheet and shall not have a zinc coating less than 275 gms/m².

The flanges have material thickness not less than 0.60 mm, 0.70 mm, 0.80 mm, 0.90 mm & 1.0 mm for 20 mm, 25 mm, 30 mm, 35 mm and 40 mm flanges respectively.

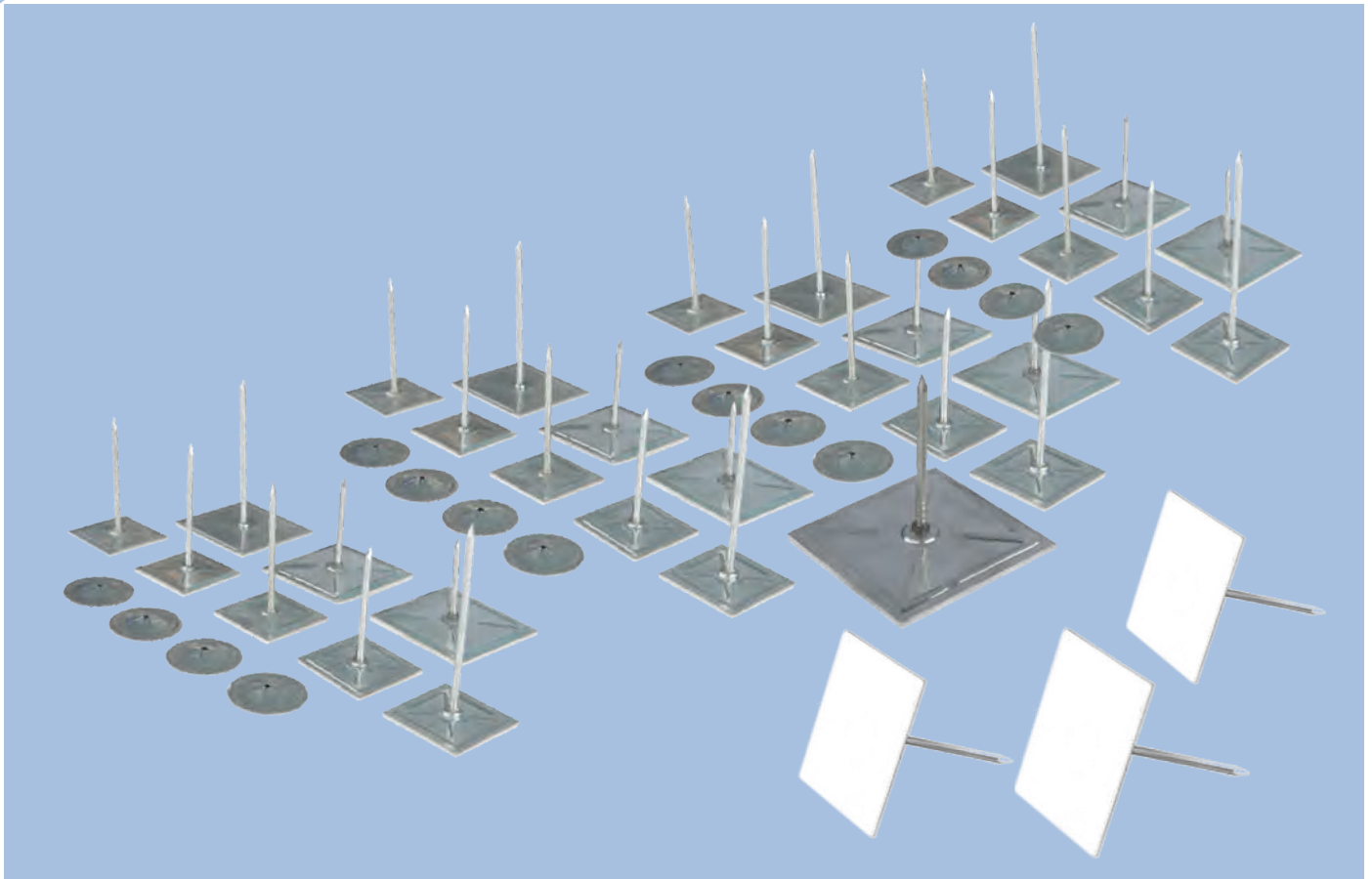
The flanges have an integral non-drying, non setting liquid based sealant in the flange pocket and technical data sheet is available for sealant used. No grease or lubricant has been used in for sealant. The non-drying sealant used in the flange is sourced from US, or European sources, to ensure quality sealing of the ductworks.

Features:

- Delta flanges are the easier and faster way to connect the transverse joint of rectangular ducts in accordance with BSRIA standards.
- Permanently flexible non-drying, non-toxic sealant injected into the profile during the manufacturing process.
- Available in 20 mm, 25 mm, 30 mm, 35 mm and 40 mm sizes.
- Complying with HVAC specification DW144, SMACNA standards.
- Full range of accessories to suit all sizes of flange.
- Manufactured with roll forming machine.
- Manufactured from premier quality galvanized steel material with Z-275 or G-90 coating.
- Suitable for HVAC specification Joint Rating up to J6 and pressure class A, B and C.

Product Portfolio

DELTA STUCK-UP PINS



Design Specification: Delta Pins are designed to fix insulating materials to smooth surfaces such as air ducts, attenuators, chambers and enclosures. Also known as Stuck-up pins, their use allows proper and speedy quality fixture without the risk of corrosion.

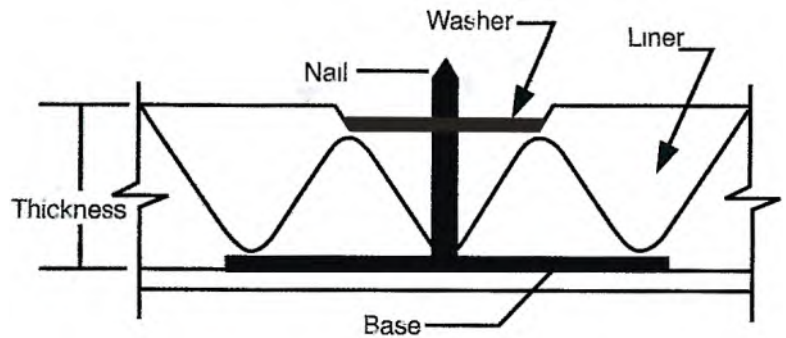
Delta Pins comprise of an aluminium nail (copper or steel alternatives on request) firmly mounted on a galvanized steel base which is backed by a self-adhesive, closed cell polyethylene foam substrate. Galvanized spring steel fastening clips (locking washers) are also supplied with the hangers available in different sizes, resistant to water, detergents, alcohols, aliphatic solvents and aromatic solvents.

The adhesive foam backing is of the highest quality and the locking Delta fastener clips ensure an outstanding assembly. In order to meet all requirements, Delta Duct Air Conditioning produces a wide range of pin lengths.

Product Portfolio

Following instructions need to be complied to achieve optimum performance from the Crayford Insulation Grip Nails.

- Clean the surface, which will receive the insulation grip nail.
- Comply as per the figure the spacing of the grip nails to have maximum and uniform adherence over the duct surface.
- Fix the washer tightly over the insulation after the insulation roll / boards are laid out.
- For external insulation application, it is recommended that the bottom and side surfaces of duct use grip nails to prevent sagging of the insulation blanket.



VELOCITY	DIMENSION				
	A	B	C	D	E
0 - 2500 FPM (0 - 12.7 MPS)	3" (76.2)	12" (305)	4" (102)	6" (152)	18" (457)
2501 - 6000 FPM (12.7 - 30.5 MPS)	3" (76.2)	6" (152)	4" (102)	6" (152)	16" (406)

Peel Adhesion : 30N/25 mm

Nail Thickness : 2.70 mm

PRODUCT CODE	BASE DIMENSION	NAIL LENGTH	QUANTITY (PIECES/BOX)
DP 1 - 114	1-3/8" x 1-3/8"	1-1/4"	1000
DP 1 - 112	1-3/8" x 1-3/8"	1-1/2"	1000
DP 1 - 134	1-3/8" x 1-3/8"	1-3/4"	1000
DP 1 - 200	1-3/8" x 1-3/8"	2"	1000
DP 1 - 212	1-3/8" x 1-3/8"	2-1/2"	1000
DP 2 - 114	2" x 2"	1-1/4"	500
DP 2 - 112	2" x 2"	1-1/2"	500
DP 2 - 134	2" x 2"	1-3/4"	500
DP 2 - 200	2" x 2"	2"	500
DP 2 - 212	2" x 2"	2-1/2"	500
DP 2 - 300	2" x 2"	3"	500
DP 2 - 312	2" x 2"	3-1/2"	300
DP 2 - 400	2" x 2"	4"	300
DP 2 - 500	2" x 2"	5"	200
DP 2 - 600	2" x 2"	6"	200

Product Portfolio

SEALANTS & ADHESIVES

Delta Duct 32 - 17 (Anti-bacterial Acrylic Mastic Sealant)



Delta Duct 32-17 is aqua based, vapor barrier re resistant sealant for low, medium, and high pressure or high velocity metal, fiberglass and flexible heating and air conditioning air ducts. It is specially formulated to meet Middle East weather condition. It is highly elastic in nature. It has excellent adhesion to metal, aluminium etc.

This exhibits excellent strength, flexibility and resistance to heat and cold. It performs as tough and flexible adhesive and sealant, forming a durable seal against air leakage.

Delta Duct 32-17 does not contain Asbestos, Lead, Mercury or Mercury Compounds.

Physical & chemical resistance

Highly resistant to mold, mildew, water, extreme temperature changes and aging. Resistant to oil or grease and mildly resistant to diluted alkalis and acids.

Conforms to

ASTM C-411 (Hot Surface Performance of High Temperature Thermal Insulation)

ASTM C-732 (Aging Effects of Artificial Weathering on Latex Sealants) ASTM D- 2202 (Slump Test)

Caution

Crystalline Silica. Eye contact may cause irritation. Prolonged skin contact may cause irritation. No expected harmful effects from inhalation of vapors. Warning the product contain Crystalline Silica. Long term inhalation may cause lung effect.

Application

DELTA DUCT 32-17 applies to clean, dry, oil free and sounded surface (To clean surface use power blower). Apply by power extrusion or trowel uniformly a 2" wide coat over the joint @ 2 to 2.2 gallon/100 ft². Total coverage 40-55 ft²/gal. Allow the completed joint to dry at least 24 hours above 25°C before pressure testing. High humidity (over 70%) and or cooler temp. may retard drying. Total WFT to be 30-35 mils.

Power Extrusion

Delta Duct 32-17 may be applied using a wide variety of power extrusion equipment suitable for use with water base sealants. It is a soft creamy with a typical viscosity. Always use corrosion resistant equipments.

Product Portfolio

Cleaning

Clean with warm water and soap when wet.
Mineral spirits when dry.

Warning

Delta Duct 32-17 is recommended only for industrial purpose, please keep out of reach of children.

Packing

Delta Duct 32-17 is available in 440 gram cartage.

Storage & Shelf Life

Store under cover, protect from direct sunlight and high temperature (>38°C). Shelf life is up to 12 months in unopened container when stored as directed. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Health & Safety

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

Inhalation: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

Eye Contact: Flush eyes with water for 15 minutes and call for medical help.

Ingestion: Causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

Skin Contact: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

Warranty

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

Product Portfolio

Base	Synthetic resin
Colour	White/Grey (Aluminium)
Solid	70% +/- 1.5%
Specific gravity	1.6 +/- 0.1
Application temp.	Min 5°C
Service temperature	-73°C to 149°C
Flash Point	Non flammable
VOC	Less than 1 g/L
Water resistance	Excellent
UV resistance	Excellent
Chemical resistance	Excellent
Insulation properties	Excellent
Odor	Mild

Delta Duct 81 - 10 (Duct Liner Glue)



Delta Duct Glue 81–10 is inflammable, single component adhesive based on synthetic modified rubber with special tackyfier and additives. It is specially developed for porous and non-porous substrate in humid and hot climatic conditions. It has very good wet tack, cohesive and bonding strength.

Uses:

Delta Duct Glue 81–10 can be used in application where fibrous glass wool or similar insulation are bonded to the interior or exterior of metal duct.

Features:

- Excellent bonding to most of porous and non-porous surfaces.
- Water resistant.
- Chemical resistant.
- Suitable to Middle East climatic conditions.
- Very easy to apply.
- Economical.

Product Portfolio

Surface Preparation:

The surface should be clean, dry and free from oil, grease and loose particles.

Method of Application:

Apply Delta Duct Glue 81–10 with brush, roller or pressure feeding equipment evenly on both surfaces, wait until solvent is fully evaporated. After the evaporation of solvent in adhesive, assemble the surface by applying normal hand pressure. In case of fibrous wool, apply Delta Duct Glue 81–10 evenly by brush or any suitable equipment over the GI sheet and wait for 5 to 10 minutes before bonding the glass wool.

Open Time:

10 to 20 minutes depending upon applied film thickness and substrate.

Coverage:

The wet coverage of Delta Duct Glue 81–10 is 6 to 8 m²/kg subjected to type of surface and nature of material being bonded. To get proper coverage, always keep the container's spout closed to prevent the solvent evaporation.

Caution:

Adequate ventilation must be maintained, particularly in conned spaces. Due to volatile in nature of solvent, keep away from source of ignition such as pilot lights or sparks. Prohibition of smoking must be rigidly enforced in the vicinity of use.

To prevent and minimize the evaporation of solvent, use spout only instead of opening the lid of container.

Storage & Shelf Life:

Store under cover, protect from direct sunlight and high temperature (>27°C). Shelf life is up to 12 months in an unopened container when stored as directed.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. Please follow the petroleum regulation and law of the land.

Product Portfolio

Base	Synthetic modified rubber
No. of component	Single
Colour	Green / Transparent Yellow and Amber Red
Solid %	20± 5
Consistency	Flow able liquid
Viscosity (Brookfield) @ 25°C, S6, RPM 20	1000 to 8000 cps
Density	0.85 ±0.10
Service Temp.	-25 °C to + 90 °C
Flash Point	Below 10°C
Water Resistance	Excellent
Chemical resistance	Good
Solubility	Hydro Carbon
DP 2 - 400	2" x 2"
DP 2 - 500	2" x 2"
DP 2 - 600	2" x 2"

Cleaning:

Clean all the tools with aromatic solvent.

Packing:

Delta Duct Glue 81–10 is available in 15 liters Spouted Metal Pail.

Advantages:

- Excellent bonding to most of porous and non-porous surfaces.
- Water resistant.
- Chemical resistant.
- Suitable to Middle East climatic conditions.
- Very easy to apply.
- Economical.

Health & Safety:

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

Product Portfolio

Inhalation: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air and if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

Eye Contact: Flush eyes with water for 15 minutes and call for medical help.

Ingestion: causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

Skin Contact: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

Warranty:

Information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

Delta Duct 30 - 36 (Canvas Cloth Coating and Lagging Adhesive)



Delta Duct 30-36 is a tough and flexible adhesive and sealant, forming a durable seal against air leakage. Due to its excellent water, U.V. and abrasion- resistance it can be used in outdoors as well as indoors in thermal insulation system on metal duct.

Surface Preparation:

The surface should be clean, dry and free from oil, grease and loose particles.

Application Method:

Apply a tack coat of Delta Duct 30-36 @ 3 to 3.5 m² per liter. After applying tack coat immediately imbed the selected lagging fabric smoothly in to the wet coating. Apply two finish coat of Delta Duct 30-36 at rate of 4 to 5 m² / liter. It is very important to ensure that each coat of Delta Duct 30-36 totally cured before the next coat is applied. The dry film thickness will vary with fabric selected.

Product Portfolio

Method of Application:

Brush- Use suitable paint brush and apply with full brush and spread out evenly

Roller: Use medium size paint roller and dipped fully and spread out evenly.

Spray Delta Duct 30-36 AF can be applied with airless spray. For airless equipment information, please contact your equipment supplier followed by product viscosity mentioned in data.

Coverage:

On an average 3 to 5 m² /per liter @ 150 to 210 DFT. depending upon the method of application.

Advantages:

- Good adhesion and high strength.
- Water resistant can be washed with mild soap.
- Non-toxic & non-flammable.
- UV resistance.
- Chemical resistance.
- Antibacterial.
- Suitable to Middle East climatic conditions.

Storage & Shelf Life:

Store under cover, protect from direct sunlight and high temperature (>45°C). Shelf life is up to 12 months in unopened container when stored as directed.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Cleaning:

Clean all the tools immediately with clean water.

Packing:

Delta Duct 30-36 is available in 25 kg air tight plastic pail and 4 kg plastic bucket.

Health & Safety:

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

Product Portfolio

Inhalation: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

Eye Contact: Flush eyes with water for 15 minutes and call for medical help.

Ingestion: causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

Skin Contact: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

Warranty:

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

Base	Selective synthetic resin
No. of component	01
Colour	White
Consistency	Thixotropic like paste
Viscosity (Brookfield) @25oC, S6, RPM 20	30000 to 50000 cps
Density, g/cc	1.35 ± 0.10
Bonding time	45 minutes (at 20°C, 50% relative humidity)
Drying time	3 to 4 hours temp. * depending on ambient as per guidelines of ASTM D 1640-03
Service temp.	Up to 234° F (112°C)
Cured film	Flexible, Tough
Water tightness	Excellent
Chemical resistance	Good
Insulation properties	Excellent
UV Resistivity	Excellent

Product Portfolio

Delta Duct 30 - 36 AF (Thermal Insulation Anti-Fungal Protective Coating)



Delta Duct 30-36 AF is a flexible adhesive and sealant, forming a durable seal against air leakage. Due to its excellent water, U.V. and fungi resistance, it can be used in outdoors as well as indoors in thermal insulation system on metal duct. Delta Duct 30-36 AF can be used where the humidity level had to be sustained at or above 90%.

Surface Preparation:

The surface should be clean, dry and free from oil, grease and loose particles.

Features:

- Good adhesion
- Water resistant
- Non-toxic & non-flammable
- UV resistance
- Chemical resistance
- Anti-fungal & anti-bacterial

Application Method:

Apply a tack coat of Delta Duct 30-36 AF @ 3 to 5 m² per liter. After applying tack coat immediately imbed the selected lagging fabric smoothly in to the wet coating. Apply two finish coat Delta Duct 30-36 AF at rate of 4 to 5 m² / liter.

It is very important to ensure that each coat of Delta Duct 30-36 AF is totally cured before the next coat is applied. The dry film thickness will vary with fabric selected.

Mode of Application:

Brush- Use suitable paint brush and apply with full brush and spread out evenly.

Roller: Use medium size paint roller and dipped fully and spread out evenly.

Spray Delta Duct 30-36 AF can be applied with airless spray. For airless equipment information, please contact your equipment supplier followed by product viscosity mentioned in data.

Coverage:

On an average 3 to 5 m² /per liter @ 150 to 210 DFT. depending upon the method of application.

Storage & Shelf Life:

◀ Product Portfolio

Store under cover, protect from direct sunlight and high temperature (>35°C). Shelf life is up to 12 months in unopened container when stored as directed.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. Please follow the petroleum regulation and law of the land.

Cleaning:

Clean all the tools immediately with clean water.

Packing:

Delta Duct 30-36 AF is available in 25 kg. air tight plastic pail and 4 kg plastic bucket.

Health & Safety:

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

Inhalation: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

Eye Contact: Flush eyes with water for 15 minutes and call for medical help.

Ingestion: causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

Skin Contact: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

Warranty:

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

Product Portfolio

Base	Selective synthetic resin
No. of component	01
Consistency	Thixotropic like paste
Solid content	62% $\pm$ 5%
Viscosity	25000 to 50000 cps (Brookfield)
Specific gravity	1.26 $\pm$ 1
Bonding time	45 minutes (at 20°C, 50% relative humidity)
Drying time	3 to 5 hours depending on ambient temp. *
Service temp.	Up to 212 °F (100°C)
Flash point	Non flammable
Cured film	Flexible
Water tightness	Excellent
Chemical resistance	Good
Insulation properties	Excellent
UV Resistivity	Good
Water permeability resistance	Excellent
Solubility	Water

Product Portfolio

CANVAS CLOTH

Delta Duct Canvas Cloth



Canvas cloth is weaved on Power looms from cotton yarn available in Rolls/Taka in different weights Un Dyed, Un Bleached but in Grey mode.

Use of Applications

Mainly used in Air Conditioning Ducts for covering it with Foster very much adhesive because of cotton made other uses are for tenting and tarpaulins.

Measurement, Weight Age

Two main varieties are mostly used in ducting.

- a) 6 Oz - 1.5 Kg per Roll / Taka
Yarn Count = 9 Single both in Warp and Weft
Reeds = 20 Picks = 18
Width of Roll = 36 Inches
Length of Roll = 20 Yards
- b) 8 Oz - 1.9 Kg per Roll / Taka
Yarn Count = 9 Single both in warp and Weft
Reeds = 22 Picks = 22
Width of Roll = 36 Inches
Length of Roll = 20 Yards

Contents

25 Rolls / Taka of length 20 Yards, width 36 Inches each is packed / Bale pressed in a Bale.

Product Portfolio

THREADED RODS

Product Range

- Threaded Rods

Diameters

M8, M10

Stock Range

2 metre

Grades

4.6

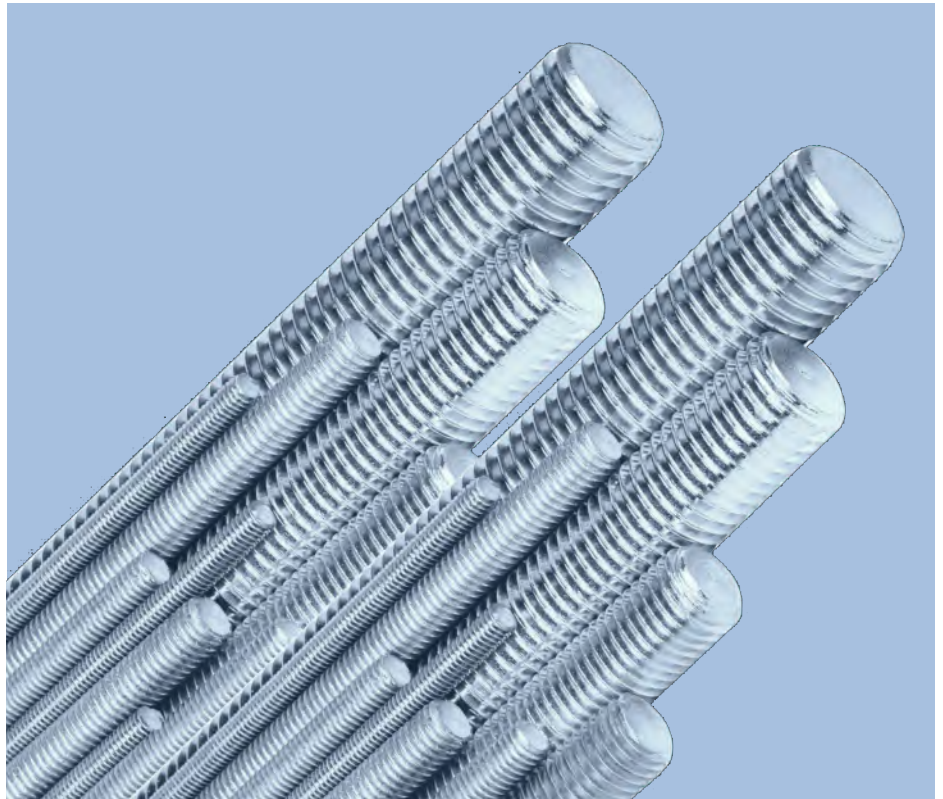
Threads

MM

60 Degree Thread Angle

Finishing / Coating

Electro Zinc Plated



Threaded Rods Production Process



Threaded Rod is typically manufactured through thread rolling, a process in which a blank bar is fed through a rotating die. Because the component is worked while cold, this process produces threaded parts with greater strengths, hardness and wear resistance.

Weight Chart

Weight Per Piece in Kgs.

SIZE	2 METER
M8	0.560
M10	0.900

Packing Chart

Pcs. Per Bundle

SIZE	2 METER
M8	85
M10	55

Product Portfolio

ALUMINIUM SHEETS - HINDALCO - INDIA (PLAIN & STUCCO)



- Aluminium roofing sheets are extremely light and have a high strength-to-weight ratio.
- Aluminium is an increasingly popular choice for use in installations and buildings. It is corrosion resistant in almost any kind of environment. Even in highly corrosive industrial environments, it is resistant to fumes and vapours of organic compounds and to chemicals like ammonia, carbon dioxide and acids such as hydrochloric acid, nitric acid and sulphuric acid. Such corrosion resistance gives the metal a long life and keeps it looking good throughout its life.

- The shine and brightness of aluminium livens its surroundings, and, because it doesn't stain, discolour or rot, it keeps its brightness and shine for a long time. Aluminium corrugated sheets can take a variety of finishes, colours and textures, which protect them and further enhance their appearance.

DESCRIPTION	AVAILABLE THICKNESS (MM)	BRAND
Aluminium Sheet (Plain)	0.6, 0.7	Hindalco
	0.8, 0.9	

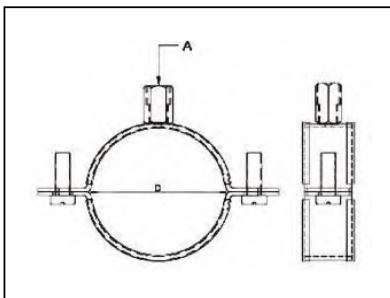
DESCRIPTION	AVAILABLE THICKNESS (MM)	BRAND
Aluminium Sheet (Stucco)	0.6, 0.7	Hindalco
	0.8, 0.9	

Product Portfolio

PIPE HANGERS & SUPPORT SYSTEMS

GNC0L0000000

PIPE HANGER WITH EPDM LINING



APPLICATION:

PIPE HANGER WITH EPDM LINING is recommended for non-insulated stationary pipelines in a horizontal position. It can be used for supporting pipes along with the roof.

CONSTRUCTION:

PIPE HANGER with EPDM lining consists of piece of mild steel shaped to wrap around the pipe. The selection of the proper PIPE HANGER WITH EPDM LINING depends upon the temperature of the piping system and load to be carried. Permits installation before and after pipe is in place. Reduces noise upto 18 dB.

MATERIAL:

Mild Steel. Also other materials can be provided on request

MAXIMUM TEMPERATURE: -20°C to 110°C

FINISH AVAILABLE:

Plain, Electro-Galvanized, Hot Dip Galvanized & Zinc Flake.

PRODUCT CODE	NOMINAL IN.	PIPE SIZE MM	PIPE OD (MM)	RANGE (MM)	NUT SIZE [A]	SIDE SCREW SIZE	MAX LOAD (KG)
TGNC0L00E0017	3/8"	DN10	17.1	15-19	M8 X M10	M6	450
TGNC0L00E0022	1/2"	DN15	21.3	20-25	M8 X M10	M6	450
TGNC0L00E0027	3/4"	DN20	26.7	26-30	M8 X M10	M6	450
TGNC0L00E0034	1"	DN25	33.4	32-36	M8 X M10	M6	450
TGNC0L00E0042	1 1/4"	DN32	42.1	38-43	M8 X M10	M6	450
TGNC0L00E0048	1 1/2"	DN40	48.2	47-51	M8 X M10	M6	450
TGNC0L00E0054	-	-	54	53-58	M8 X M10	M6	450
TGNC0L00E0060	2"	DN50	60.3	60-64	M8 X M10	M6	450
TGNC0L00E0070	-	-	70	68-72	M8 X M10	M6	450
TGNC0L00E0073	2 1/2"	DN65	73.0	74-80	M8 X M10	M6	600
TGNC0L00E0083	-	-	83	81-86	M8 X M10	M6	600
TGNC0L00E0089	3"	DN80	88.9	87-92	M8 X M10	M6	600
TGNC0L00E0102	3 1/2"	DN90	101.6	99-105	M8 X M10	M6	600
TGNC0L00E0110	-	-	110	107-112	M8 X M10	M6	600
TGNC0L00E0114	4"	DN100	114.3	113-118	M8 X M10	M6	600
TGNC0L00E0125	-	-	125	125-130	M8 X M10	M6	600
TGNC0L00E0141	5"	DN125	141.3	138-142	M8 X M10	M6	600
TGNC0L00E0160	-	-	160	159-166	M8 X M10	M6	600
TGNC0L00E0168	6"	DN150	168.3	168-172	M8 X M10	M8	600
TGNC0L00E0219	8"	DN200	219.1	215-220	M8 X M10	M8	950
TGNC0L00E0273	10"	DN250	273.0	269-274	M8 X M10	M8	950

APPLICATION EXAMPLES:





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